

# PostDoc-Position/Scientific Coordinator

## Computational Neuroscience and Statistical Signal Processing

The interdisciplinary research group Bio-inspired Communication Systems at Technische Universität Darmstadt invites applications for a

### Postdoctoral position (E13 TV-H)

initially limited to one year, starting as soon as possible.

The position is dedicated to the development of robust signal processing methods for the processing of high-dimensional neuronal datasets stemming from voltage-sensitive dye recordings, calcium imaging and from multi-electrode arrays. In particular, methods that satisfy certain real-time constraints, enabling the experimenter to intervene in a closed loop manner should be developed. Additionally, those methods are required to be robust in a statistical sense, i.e., they should be able to cope with outliers and model mismatches.

The position is part of a collaborative research project spanning across three universities (Goethe University Frankfurt, Johannes Gutenberg University Mainz and Technische Universität Darmstadt) that recently formed the science cluster of Rhine-Main Universities (RMU). Apart from research, the position will be responsible for coordinating the common research activities among this group (organization of workshops, supporting novel collaborations, etc) and to direct the design of the joint research agenda of the research group for the following years. The position is ideal for a candidate seeking to combine research with gaining experience in managing collaborative research efforts. Participation in the neuroscience cluster RMN2 ([www.rmn2.de](http://www.rmn2.de)) and the Centre for Cognitive Science ([www.cogsci.tu-darmstadt.de](http://www.cogsci.tu-darmstadt.de)) will be strongly supported.

Technische Universität Darmstadt provides the environment and support for publishing and presenting original research results at leading international conferences and in scientific journals. Technische Universität Darmstadt intends to increase the number of female researchers and encourages female candidates to apply. In case of equal qualifications applicants with a degree of disability of 50 or more will be given preference. Wages and salaries are according to the collective agreements on salary scales, which apply to the Technische Universität Darmstadt (TV-TU Darmstadt). Part-time employment is generally possible.

### Your profile:

- Completed Ph.D. degree in computational neuroscience or signal processing/machine learning with neuroscience applications.
- Interest in scientific coordination of larger research programs and workshops.
- Appreciation for interdisciplinary work and proactive drive to connect people.

**Contact:** Prof. Heinz Koepl, Rundeturmstrasse 12, 64283 Darmstadt [heinz.koepl@bcs.tu-darmstadt.de](mailto:heinz.koepl@bcs.tu-darmstadt.de)

### Application:

Your application must include:

- Cover letter explaining succinctly why you are interested in this position and why you believe you are the right candidate.
- CV
- List of passed courses and obtained grades
- Contact details of at least two references (academic advisors) of yours.

Please send your documents as one single PDF file to: [application@bcs.tu-darmstadt.de](mailto:application@bcs.tu-darmstadt.de) indicating the application code within the subject line. Incomplete applications and applications in different file formats will be discarded.

**Application code:** RMU-2017-4

**Deadline:** 24.09.2017